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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/787,186	03/15/2001	Martin Rudolf Behringer	12406-018001 6550	
26161	7590 04/18/2006		EXAMINER	
	HARDSON PC	CRANE, SARA W		
P.O. BOX 102 MINNEAPOI	22 JIS, MN 55440-1022		ART UNIT	PAPER NUMBER
	,		2811	
		DATE MAILED: 04/18/2000	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application No.	Applicant(s)				
Office Action Summary		09/787,186		BEHRINGER, MARTIN RUDOLF			
		Examiner	Art Unit	(m)			
		Sara W. Crane	2811	(g)			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
2a) ☐ This 3) ☐ Since	consive to communication(s) filed on <u>pag</u> action is FINAL . 2b) The this application is in condition for allow and in accordance with the practice under	is action is non-final. ance except for formal matte	rs, prosecution as to the	merits is			
Disposition of	Claims	·					
 4) Claim(s) 5-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 5-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Pa	apers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under	35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice of Dr 3) Information	eferences Cited (PTO-892) aftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO-1449 or PTO/SB/0 /Mail Date	Paper No(s)	ummary (PTO-413))/Mail Date formal Patent Application (PTO 	-152)			

Application/Control Number: 09/787,186

Art Unit: 2811

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 5-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In each of the independent claims, "sub-monolayer islands" is not clear. The specification states that sub-monolayer islands "may be understood as layers of semiconductor material that do not cover the entire growth surface of the semi-conductor body basically available for the growth processes of the layers, but rather only a portion thereof." (page 3, third full paragraph) So would a sub-monolayer island be any different from an ordinary island? After all, if a material is formed as an island, it would not cover the entire surface on which it lies. What is it that makes an island a "sub-monolayer" island?

In particular, the examiner needs to determine whether Applicant's sub-monolayer islands are distinct from ordinary quantum-dot-type islands, exemplified by for example the Sugiyama reference cited on the PTO form 892, which notes at column 2, line 3 the Stranski-Krastanow growth mode that gives rise to islands of one semiconductor within a layer of a semiconductor of different lattice constant.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

a Application/Control Number: 09/787,186

Art Unit: 2811

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane
Primary Examiner
Art Unit 2811